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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/888,419	06/26/2001	Takenori Goto	010802	9498	
38834 7	7590 03/29/2004		EXAM	INER	
WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP 1250 CONNECTICUT AVENUE, NW SUITE 700 WASHINGTON, DC 20036			NGUYEN, JOSEPH H		
			ART UNIT	PAPER NUMBER	
			· 2815		
			DATE MAILED: 03/29/200	DATE MAILED: 03/29/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
Office Action Commons	09/888,419	GOTO, TAKENORI				
Office Action Summary	Examiner	Art Unit				
	Joseph Nguyen	2815				
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet wit	h the correspondence address				
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communicate. If the period for reply specified above is less than thirty (30) days. If NO period for reply is specified above, the maximum statutory. Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ION. FR 1.136(a). In no event, however, may a re on. s, a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MONT statute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	<u>19 November 2003</u> .					
2a) ☐ This action is FINAL . 2b) ⊠	☐ This action is FINAL . 2b) ☑ This action is non-final.					
3) Since this application is in condition for a	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice ur	nder <i>Ex parte Quayle</i> , 1935 C.D.	11, 45 3 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-41</u> is/are pending in the applic	Claim(s) <u>1-41</u> is/are pending in the application.					
4a) Of the above claim(s) <u>12-21</u> is/are wit	4a) Of the above claim(s) <u>12-21</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	- · · · — - ·					
6)⊠ Claim(s) <u>1-11, 22-41</u> is/are rejected.						
7) Claim(s) is/are objected to.	•					
8) Claim(s) are subject to restriction	and/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Exa	aminer.					
0)⊠ The drawing(s) filed on <u>26 June 2001</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection	***					
Replacement drawing sheet(s) including the c	,	-				
11)☐ The oath or declaration is objected to by t	the Examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) △ Acknowledgment is made of a claim for for a) △ All b) ☐ Some * c) ☐ None of: 1. △ Certified copies of the priority docu 2. ☐ Certified copies of the priority docu 3. ☐ Copies of the certified copies of the	iments have been received. iments have been received in A	oplication No				
application from the International E	Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for	a list of the certified copies not	received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)		ummary (PTO-413))/Mail Date				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-94) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/94) Paper No(s)/Mail Date 		formal Patent Application (PTO-152)				

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1,2, 4-11, 22-41 are rejected under 35 U.S.C. 102(b) as being anticipated by figure 12 of the acknowledged prior art (APA).

Regarding claim 1, figure 12 of (APA) discloses a nitride based semiconductor laser device comprising a transparent substrate 51 having conductive properties; a nitride based semiconductor layer 54 formed on one surface of said transparent substrate and constituting a cavity having a front facet on a side of laser light emission and a rear facet on an opposite side from said front facet; a first ohmic electrode 60 of a first conduction type formed on the other surface of said transparent substrate; and a second ohmic electrode 61 of a second conduction type formed on said nitride based semiconductor layer, wherein at least one of said first and second ohmic electrodes is formed in such a shape or arrangement that the directions of the front facet and the rear facet of said cavity of said nitride based semiconductor layer can be distinguished, and wherein one of said first and second ohmic electrodes can be observed through said transparent substrate and said nitride based semiconductor layer from the other side of said first and second ohmic electrodes.

Regarding claim 2, figure 12 of (APA) discloses said first ohmic electrode 60 and second ohmic electrode 61 have different shapes.

Regarding claim 4, figure 12 of (APA) discloses said second ohmic electrode 61 is arranged on a region different from a region above a region where said first ohmic electrode is formed in said nitride based semiconductor layer.

Regarding claim 5, figure 12 of (APA) discloses said transparent substrate 51 is composed of gallium nitride.

Regarding claim 6, figure 12 of (APA) discloses said nitride contains at least said nitride based semiconductor layer contains at least one of gallium, aluminum, indium, born and thallium.

Regarding claim 7, figure 12 of (APA) discloses at least one of said first and second ohmic electrodes is asymmetric with respect to a line passing a center point of said cavity length and vertical to the cavity length direction.

Regarding claim 8, figure 12 of (APA) discloses said nitride based semiconductor layer has a striped current injection region, and said firs and second ohmic electrodes respectively have regions opposite to said striped current injection region.

Regarding claim 9, figure 12 of (APA) discloses dielectric films respectively formed at a front facet and a rear facet of said cavity.

Regarding claim 10, figure 12 of (APA) discloses said dielectric films respectively formed at the front facet and the rear facet of said cavity have different reflectances.

Regarding claim 11, figure 12 of (APA) discloses said nitride based semiconductor layer comprises a cladding layer 52 of a first conduction type, an active layer 54 and a cladding layer 57 of a second conduction type.

Regarding claims 22-41, figure 12 of (APA) discloses all the structures set forth in the claimed invention.

Claims 1,3-11, 22, 24-41 are rejected under 35 U.S.C. 102(b) as being anticipated by Koga.

Regarding claims 1, 3-11, 22, 24-41, Koga discloses on figure 8 all the structures set forth in the claimed invention.

Response to Arguments

Applicant's arguments filed on 11/19/2003 have been fully considered but they are not persuasive.

Applicant argues that in (APA) or Koga, the directions of the front facet and the rear facet of the cavity cannot be distinguished by the shape or arrangement of at least one of the two electrodes as recited in now amended claim 1. However, it is clear that in (APA) or Koga, the directions of the front facet and the rear facet of the cavity can be distinguished by the shape or arrangement of at least one of the two electrodes. One of ordinary skill in the art would be able to distinguish the directions of the front facet and the rear facet of the cavity based on the shape or arrangement of at least one of the two electrodes in (APA) or Koga since the front facet and the rear facet are structurally

arranged around the area of at least one of the two electrodes therein. Furthermore, "front" and "rear" are arbitrary labels and facets of the prior art can be so labeled. The descriptive language in the claims does not structurally distinguish the claims over the prior art applied.

Moreover, applicant argues that in figure 12 of APA, neither of the ohmic electrodes is formed in such a shape or arrangement that the directions of the front facet and rear facet of the cavity of said nitride based semiconductor layer can be distinguished. However, applicant admitted on page 3 of the instant application that it takes much time to distinguish the directions of the front facet and rear facet of the cavity of the conventional semiconductor laser device. As such, it is difficult and yet still possible to distinguish the directions of the front facet and rear facet of the cavity of the conventional semiconductor laser device. Further, the ohmic electrodes in figure 12 of APA have different sizes and meet the broad limitation of claim 1. Also, the conventional device is formed of substantially the same materials as that of the claimed subject matter. Therefore, figure 12 of APA does not structurally distinguish from the claimed invention herein.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Nguyen whose telephone number is (703) 308-1269. The examiner can normally be reached on Monday-Friday, 7:30 am- 4:30 pm

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on (703) 308-1690. The fax phone numbers for the organization where this application or proceeding is assigned is (703) 308-7382 for regular communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

JN March 23, 2004

> JEROMÉ JACKSON PRIMARY EXAMINER